

Appln No. 10/039,952
Amdt date September 25, 2004
Reply to Office action of August 27, 2004

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1-17 (Cancelled).

18. (Original) A method for the production of an amine from a target ketone comprising:

creating a mutated enzyme that catalyzes the reductive amination or transamination of the target ketone; and

providing the mutated enzyme in a reaction mixture comprising the target ketone under conditions sufficient to permit the formation of the amine to thereby produce the amine.

19. (Original) The method of claim 18, wherein the mutated enzyme catalyzes the reductive amination of the target ketone.

20. (Original) The method of claim 19, wherein the mutated enzyme is an amino acid dehydrogenase.

21. (Original) The method of claim 19, further comprising providing an existing enzyme that catalyzes the reductive amination of a ketone, wherein the mutated enzyme is created by mutating the existing enzyme, and further wherein the mutated enzyme catalyzes the reductive amination of the target ketone at a greater rate than the existing enzyme.